

	Application No.	Applicant(s)
Notice of Allowability	10/510,704	HATANAKA ET AL.
	Examiner	Art Unit
	John S. Chu	1752
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE OFFICE	(OR REMAINS) CLOSED in or other appropriate commur GHTS. This application is su	h the correspondence address this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>9/12/05</u> .		
2. The allowed claim(s) is/are 1-5 and 7-19.		
 Acknowledgment is made of a claim for foreign priority units. a)	been received. been received in Application	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a ENT of this application.	a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give:	tted. Note the attached EXAI s reason(s) why the oath or	MINER'S AMENDMENT or NOTICE OF declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) including changes required by the Notice of Draftsperso		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	B4(c)) should be written on the e header according to 37 CFR	e drawings in the front (not the back) of R 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the
Attachment(s)		
1. Notice of References Cited (PTO-892)		ormal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sur Paper No /M	mmary (PTO-413), ⁄lail Date
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	3), 7. ☐ Examiner's A	Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's S	Statement of Reasons for Allowance
	9.	

Page 2

1. The following is an examiner's statement of reasons for allowance: The claimed

invention is drawn to the following;

1. A positive photosensitive resin composition

comprising an alkali-soluble resin, a 1,2-quinone diazide

compound, a crosslinking compound having at least two

epoxy groups and a surfactant, wherein the above alkali-

soluble resin is a copolymer comprising a carboxyl group-

containing acrylic monomer, a hydroxyl group-containing

acrylic monomer and an N-substituted maleimide as

essential components.

Claims to a method are recited as follows:

Claim 17 (New): A method, comprising:

applying the positive photosensitive resin composition according to Claim 1 onto a

substrate, then

imagewise exposing the substrate,

forming a first pattern, and

postbaking to form a second pattern having a semicircular or trapezoidal section.

The inventive step is the combination of the recited terpolymer having a carboxyl group,

a hydroxyl group and an N-maleimide group in a mixture with a 1,2-quinone diazide compound

and a crosslinking compound with two epoxy groups and its claim in a method. The closest prior

art found include those listed in the previous Office action, such as JAREK et al, which recites a

terpolymer having an N-maleimide, methacrylic acid and a methacrylamide or N-

methoxymethacrylate. The reference lacks the recited crosslinking agent as claimed to an epoxy

ingredient.

Newly cited references to SUZUKI et al (6,797,450) teach radiation sensitive compositions for EL displays, however the reference lacks the directed teaching for the terpolymer as claimed used in a composition with an epoxy compound.

SCHULTZ et al (6,306,555) likewise disclose sporadically the monomer groups in the claimed terpolymer, however lack a directed teaching to use such a terpolymer having a carboxyl group, a hydroxyl group and an N-maleimide group in a composition with a quinone diazide compound the terpolymer.

Because none of the recited prior art references of record anticipate or render obvious the claimed invention, claims 1-5, and 7-19 are seen as allowable and passed to issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published applications
may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Application/Control Number: 10/510,704

Art Unit: 1752

applications is available through Private PMR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner, Group 1700

Page 4

J.Chu October 19, 2005